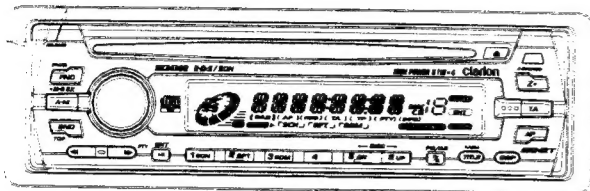


Service Manual

NET



RDS-EON FM/MW/LW
Radio CD Combination
with DVD/MD/CD Changer/
DAB / TV Control

Model

DXZ438R

(PE-2555E-A)

SPECIFICATIONS

Radio section

Tuning system: PLL synthesizer tuner
 Receiving frequencies: FM : 87.5 to 108 MHz
 (0.05 MHz steps)
 MW : 531 to 1602 kHz
 (9 kHz steps)
 LW : 153 to 279 kHz
 (3 kHz steps)

CD player section

System: Compact disc digital audio system
 Frequency response: 10 Hz to 20 kHz (+1/-1 dB)
 Signal to noise ratio: 100 dB (1 kHz) IHF-A
 Dynamic Range: 95 dB (1 kHz)
 Distortion: 0.01%

General

Output power : 27 W x 4
 (DIN45324, +B=14.4 V)
 Power supply voltage: 14.4 V DC (10.8 V to 15.6 V allowable),
 negative ground
 Power consumption: Less than 15 A
 Speaker impedance: 4ohm(4ohm to 8ohm allowable)
 Auto antenna rated current:
 500 mA or less
 Weight: 1.2 kg
 Dimensions: 178(W) x 50(H) x 155(D)mm

* Specifications and design are subject to change without notice for further improvement.

NOTE

- * We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.
- * CD-ROM discs cannot be played by this unit.

COMPONENTS

PE-2555E-A

| | | |
|--------------------|-------------|---|
| Main unit | ----- | 1 |
| Mounting bracket | 300-7742-00 | 1 |
| DCP case | 335-6035-20 | 1 |
| Escutcheon(OUT-ES) | 370-6029-00 | 1 |
| Parts bag | ----- | |
| Removal key | 331-2497-00 | 2 |
| Rubber part | 345-3653-20 | 1 |
| Screw | 716-0726-01 | 1 |
| A- lead | 850-6681-50 | 1 |

FEATURES

- 1.1-Bit D/A Converters and 8-Times Oversampling Digital Filter.
2. DIN Chassis with Detachable Control Aluminum Face with Blue Negative LC Display.

To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection. If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

5. Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

6. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270 °C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

8. Cautions in checking that the optical pickup lights up.

The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.

9. Cautions in handling the optical pickup

The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

9-1. Laser diode

The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

9-2. Actuator

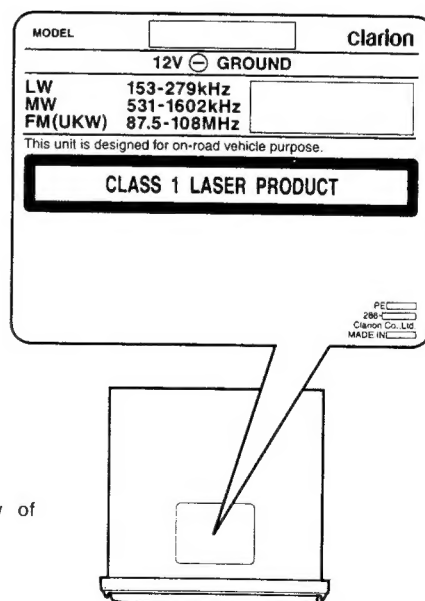
The actuator has a powerful magnetic circuit. If a magnetic material is put close to it, its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

9-3. Cleaning the lens

Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

CAUTIONS

This appliance contains a laser system and is classified as a "CLASS 1 LASER PRODUCT". To use this model properly, read this Owner's Manual carefully and keep this manual for your future reference. In case of any trouble with this player, please contact your nearest "AUTHORIZED service station". To prevent direct exposure to the laser beam, do not try to open the enclosure.



Bottom view of Main Unit

NOTES OF ISO CONNECTOR

1. For VW and Audi vehicles, change the position of fuse installation as shown on the diagram. (Figure 1)

ISO CONNECTOR type

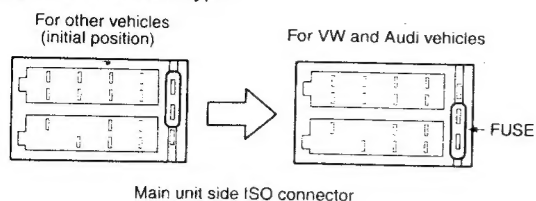


Figure 1

Note: Before cutting the lead wire, disconnect the car battery - (negative) cable.

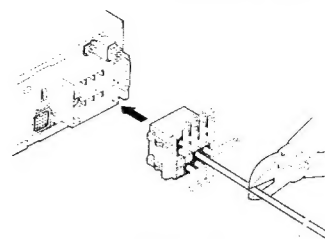
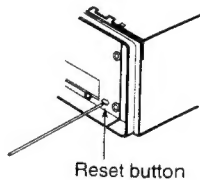


Figure 2

2. When the car stereo is installed in 1998 and later Volkswagen models, make sure to cut the car lead wire connected the A-5 terminal. (A breakdown could occur if the lead wire is not cut.) After cutting the lead wire, insulate the front end of the lead wire with insulation tape to prevent the risk of short-circuits. (Figure 2)

3. When the Main unit is also connected to an external amplifier in a wiring procedure, connect REMOTE on the external amplifier to the previously cut lead wire on the side of the connector.

TROUBLESHOOTING

| Problem | Cause | Measure |
|--|---|--|
| Power does not turn on. (No sound is produced.) | Fuse is blown. | Replace with a fuse of the same amperage as the old fuse. |
| | Incorrect wiring. | Read the attached "Installation/Wire Connection Guide" once again and wire properly. |
| No sound output when operating the unit with amplifiers or power antenna attached. | Power antenna lead is shorted to ground or excessive current is required for remote-on the amplifiers or power antenna. | <ol style="list-style-type: none"> 1. Turn the unit off. 2. Remove all wires attached to the power antenna lead. Check each wire for a possible short to ground using an ohm meter. 3. Turn the unit back on. 4. Reconnect each amplifier remote wire to the power antenna lead one by one. If the amplifiers turn off before all wires are attached, use an external relay to provide remote-on voltage (excessive current required.) |
| Nothing happens when buttons are pressed. Display is not accurate. | The microprocessor has malfunctioned due to noise, etc. | Turn off the power, then press the [RELEASE] button and remove the DCP. Press the reset button for about 2 seconds with a thin rod.  |
| | DCP or main unit connectors are dirty. | Wipe the dirt off with a soft cloth moistened with cleaning alcohol. |
| Compact disc cannot be loaded. | Another compact disc is already loaded. | Eject the compact disc before loading the new one. |
| Sound skips or is noisy. | Compact disc is dirty. | Clean the compact disc with a soft cloth. |
| | Compact disc is heavily scratched or warped. | Replace with a compact disc with no scratches. |
| Sound is bad directly after power is turned on. | Water droplets may form on the internal lens when the car is parked in a humid place. | Let dry for about 1 hour with the power on. |

ERROR DISPLAYS

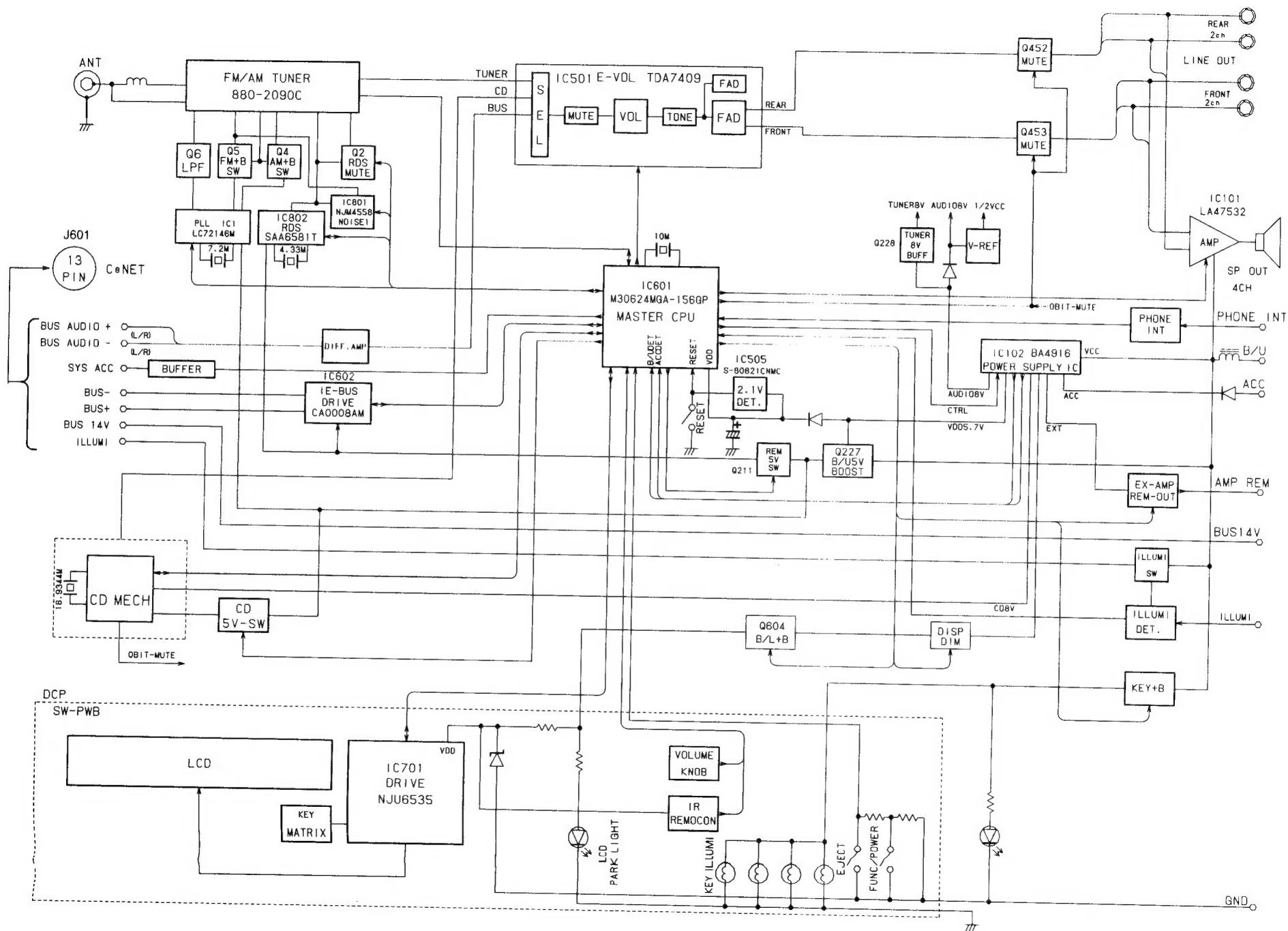
If an error occurs, one of the following displays is displayed.

Take the measures described below to eliminate the problem.

| | Error Display | Cause | Measure |
|-----------|---------------|---|--|
| CD | ERROR 2 | A CD is caught inside the CD deck and is not ejected. | This is a failure of CD deck's mechanism. |
| | ERROR 3 | A CD cannot be played due to scratches, etc. | Replace with a non-scratched, non-warped disc. |
| | ERROR 6 | A CD is loaded upside-down inside the CD deck and does not play. | Eject the disc then reload it properly. |
| CD CH | ERROR 2 | A CD inside the CD changer is not loaded. | This is a failure of CD changer's mechanism. |
| | ERROR 3 | A CD inside the CD changer cannot be played due to scratches, etc. | Replace with a non-scratched, non-warped disc. |
| | ERROR 6 | A CD inside the CD changer cannot be played because it is loaded upside-down. | Eject the disc then reload it properly. |
| MD CH | ERROR H | Displayed when the temperature in the MD changer is too high and playback has been stopped automatically. | Lower the surrounding temperature and wait for a while to cool off MD changer. |
| | ERROR 2 | An MD inside the MD changer is not loaded. | This is a failure of MD changer's mechanism. |
| | ERROR 3 | An MD inside the MD changer cannot be played due to scratches, etc. | Replace with a non-scratched, non-warped disc. |
| | ERROR 6 | An MD inside the MD changer cannot be played because it is loaded upside-down. | Eject the disc then reload it properly. |
| | | Displayed when a non-recorded MD is loaded in the MD changer. | Load a pre-recorded MD in the MD changer. |
| DVD CH | ERROR 2 | A DISC inside the DVD changer cannot be played. | This is a failure of DVD mechanism. |
| | ERROR 3 | A DISC cannot be played due to scratches, etc. | Retry or replace with a non-scratched, non-warped-disc. |
| | ERROR 6 | A DISC inside the DVD changer cannot be played because it is loaded upside-down. | Eject the disc then reload it properly. |
| | ERROR P | Parental level error. | Set the correct Parental level. |
| | ERROR R | Region code error. | Eject the disc and replace correct region code disc. |

If an error display other than the ones described above appears, press the reset button.

BLOCK DIAGRAM



EXPLANATION OF IC:

M30624MGA-156GP 052-3928-00 MASTER MICRO COMPUTER

1. Outward Form : 100 pins QFP

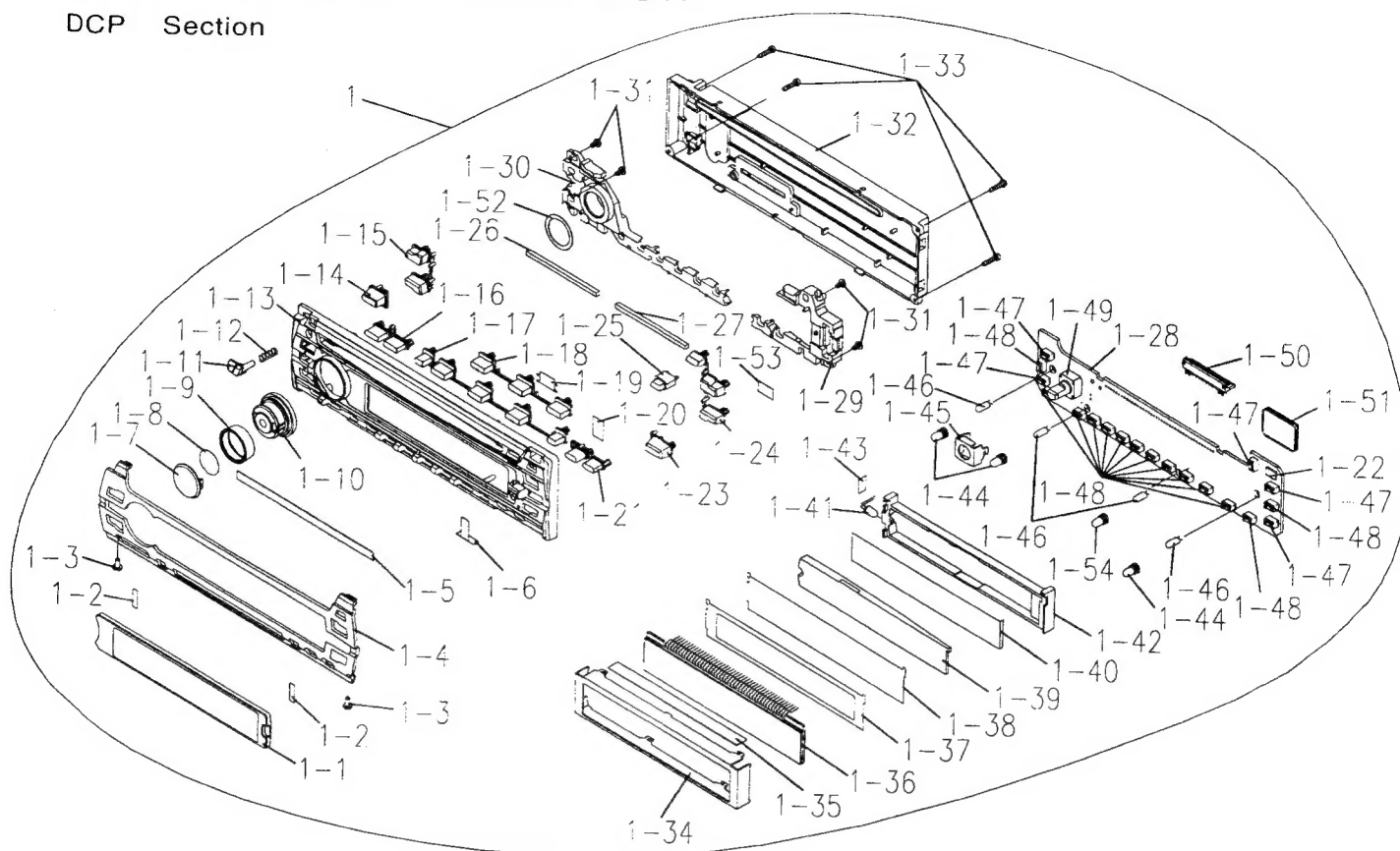
2. Terminal Description

pin 1 : REMOCON : IN : Remote controller signal input terminal.
pin 2 : T-BASE : IN : Time base pulse input.
pin 3 : CD SBSY : IN : Sub-Q data request input from the CD IC.
pin 4 : RDS DATA : IN : RDS serial data input.
pin 5 : RDS CLK : IN : RSD clock pulse input.
pin 6 : BYTE : - : Input " L " at single mode operation.
pin 7 : CN VSS : - : Input " L " at single mode operation.
pin 8 : FM_ST/SD : IN : At receiving the FM station, this port detects the stereo signal. And at seeking or scanning, this port detects the station detection signal.
pin 9 : NC : IN : Not in use.
pin 10 : RESET : - : Reset signal input.
pin 11 : XOUT : - : Crystal connection.
pin 12 : VSS : - : Negative supply voltage.
pin 13 : X IN : - : Crystal connection.
pin 14 : VCC : - : Positive supply voltage.
pin 15 : NC : IN : Not in use.
pin 16 : ACC DET : IN : ACC detection signal input.
pin 17 : B/U DET : IN : Backup detection signal input.
pin 18 : KEY INT : IN : Key interrupting signal input.
pin 19 : 27P CONE : IN : Connected to 27 pin.
pin 20 : B/L_ON : O : Not in use.
pin 21 : KEY_ILL_REM : O : Key illumination ON signal output.
pin 22 : BEEP : O : Not in use.
pin 23 : NC : O : Not in use.
pin 24 : VCOLOR-G : O : Not in use.
pin 25 : EVOL DATA : O : Serial data output to the E VOL IC.
pin 26 : VCOLOR-R : O : Not in use.
pin 27 : IE BUS RX : IN : IE Bus serial data input.
pin 28 : IE BUS TX : O : IE Bus serial data output.
pin 29 : EMU-TX : O : EMULATOR communicate line.
pin 30 : EMU-RX : IN : EMULATOR communicate line.
pin 31 : FLASHMODE : IN : Connected to GND.
pin 32 : NC : O : Not in use.
pin 33 : EVOL CLK : O : Clock pulse output to the E VOL IC.
pin 34 : A-MAS 2 : O : Not in use.
pin 35 : A-MAS 1 : O : Not in use.
pin 36 : DISP DIM : O : Back light control.
pin 37 : CTRL : O : Power IC control.
pin 38 : SYS ACC : O : ACC detect signal output.
pin 39 : FLASHMODE : IN : Connected to GND.
pin 40 : 5V REM : O : 5V power supply ON signal output.
pin 41 : NC : O : Not in use.
pin 42 : A-REMOUT : O : Internal audio amplifier ON signal output.
pin 43 : PHONE INT : IN : Telephone interrupt signal input.
pin 44 : FLASHMODE : IN : Connected to VDD.
pin 45 : ILL DET : IN : Illumination ON signal input.
pin 46 : AMPMUTE : O : Muting signal output to the Audio Power Amplifier.
pin 47 : SYSMUTE : O : System muting signal output.
pin 48 : NAVIMUTE : O : Not in use.
pin 49 : ZMUTECUT : O : Command pulse output to cut the CD zero cross mute signal.
pin 50 : B/L+B : O : LCD display control.
pin 51 : LCD CLK : O : Serial data clock output to LCD driver.
pin 52 : LCD SO : O : Serial data output to the LCD driver.
pin 53 : LCD SI : IN : Serial data input from the LCD driver.
pin 54 : LCD CE : O : The chip enable serial output to the LCD driver.
pin 55 : JOGA(CW) : IN : JOG pulse input.
pin 56 : JOGB(CCW) : IN : JOG pulse input.
pin 57 : INIT1 : IN : Not in use.
pin 58 : INIT2 : IN : Not in use.
pin 59 : INIT3 : IN : Model distinguish.
pin 60 : VDD : - : Positive supply voltage.
pin 61 : INIT4 : IN : Model distinguish.
pin 62 : GND : - : Connect to GND.
pin 63 : OFFSET DET : IN : Speaker distroied protect.

pin 64 : NC : IN : Not in use.
pin 65 : NC : IN : Not in use.
pin 66 : NC : IN : Not in use.
pin 67 : NC : IN : Not in use.
pin 68 : NC : IN : Not in use.
pin 69 : NC : IN : Not in use.
pin 70 : NC : IN : Not in use.
pin 71 : NC : IN : Not in use.
pin 72 : NC : IN : Not in use.
pin 73 : LD MUTE : O : Connected to CD MECHA.
pin 74 : LD CON : I/O : Connected to CD MECHA.
pin 75 : TR-A : IN : Photo sensor signal input from the CD MECHA.
pin 76 : TR-B : IN : Photo sensor signal input from the CD MECHA.
pin 77 : CHU SW : IN : Connected to CD MECHA.
pin 78 : SSTOP : IN : Connected to CD MECHA.
pin 79 : CD RESET : O : The reset pulse output to the CD IC.
pin 80 : CCE : O : Chip enable signal output.
pin 81 : BUCK : O : Clock pulse output to the CD IC.
pin 82 : BUS3 : I/O : Communication line with the CD IC.
pin 83 : BUS2 : I/O : Communication line with the CD IC.
pin 84 : BUS1 : I/O : Communication line with the CD IC.
pin 85 : BUS0 : I/O : Communication line with the CD IC.
pin 86 : CD 5V : O : Power supply control signal output for the CD IC/DAC IC. " H " =ON.
pin 87 : PLL_CLK : O : Clock pulse output to the PLL IC.
pin 88 : PLL_SI : IN : Serial data input from the PLL IC.
pin 89 : PLL_SO : O : Serial data output to the PLL IC.
pin 90 : PLL_CE : O : The chip enable signal output to the PLL IC.
pin 91 : RDS_TEST_ST : O : Outputting " H " without the test mode.
pin 92 : S-METER : IN : The input terminal of internal A/D converter to monitor the radio field strength.
pin 93 : NOISE 1 : IN : Input terminal of internal ADC to sense the RDS-noise-level.
pin 94 : GND : - : Connected to GND.
pin 95 : KEY A/D : IN : Input terminal of A/D converter for Key judgment.
pin 96 : VREF : - : Reference voltage.
pin 97 : A VDD : - : Positive supply voltage for the Analog section.
pin 98 : MUTE_SPEED_UP : O : Station detection speed up command output to RDS.
pin 99 : RDS_MUTE : O : RDS mute signal output.
pin 100 : RDS_DCHG : O : RDS dis-charge signal output.

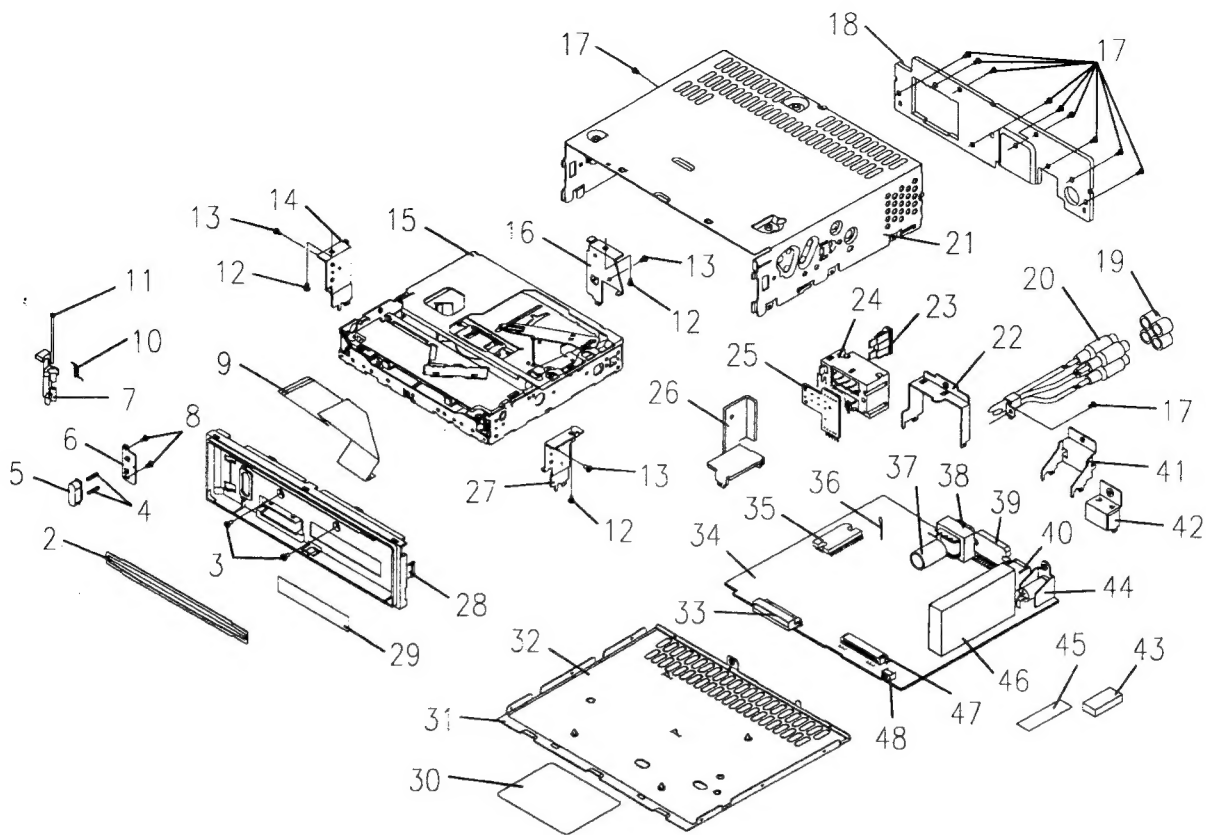
EXPLODED VIEW • PARTS LIST:

DCP Section



| NO. | PART NO. | DESCRIPTION | Q'TY | NO. | PART NO. | DESCRIPTION | Q'TY |
|------|-------------|-------------------|------|------|-------------|-----------------------------------|------|
| 1 | DCP-441-700 | DCP ASSY | 1 | 1-28 | 039-2296-00 | SWITCH PWB (WITHOUT COMPONENT) | 1 |
| 1-1 | 373-1000-01 | DIAL-CVR | 1 | 1-29 | 335-6895-00 | ILLUMI PLATE(R) | 1 |
| 1-2 | 347-6813-00 | DOUDLE FACE | 2 | 1-30 | 335-6896-00 | ILLUMI PLATE(L) | 1 |
| 1-3 | 778-6019-01 | SCREW | 2 | 1-31 | 716-1764-00 | PAD SCREW | 4 |
| 1-4 | 371-5735-04 | FACE PANEL | 1 | 1-32 | 335-6897-00 | REAR-CVR | 1 |
| 1-5 | 347-6990-00 | DOUDLE FACE | 1 | 1-33 | 716-0872-11 | PAD SCREW(M1.7x6) | 4 |
| 1-6 | 347-6995-00 | SURGE FILM | 1 | 1-34 | 331-3572-00 | LCD-COVER | 1 |
| 1-7 | 380-5553-00 | KNOB | 1 | 1-35 | 347-7014-00 | FILM | 1 |
| 1-8 | 347-6988-00 | DOUDLE FACE | 1 | 1-36 | 379-1263-41 | LCD | 1 |
| 1-9 | 345-5228-00 | RUBBER RING | 1 | 1-37 | 347-6997-00 | BLACK FILM | 1 |
| 1-10 | 380-5551-00 | INNER KNOB | 1 | 1-38 | 347-6998-00 | LCD FILM | 1 |
| 1-11 | 382-6615-02 | BUTTON(RELEASE) | 1 | 1-39 | 335-6882-00 | ILLUMI PLATE | 1 |
| 1-12 | 750-6743-00 | SPRING | 1 | 1-40 | 347-6991-00 | REFLECTPR | 1 |
| 1-13 | 370-6028-00 | ESCUTCHEON(F) | 1 | 1-41 | 001-7046-00 | DIODE | 1 |
| 1-14 | 382-6608-00 | BUTTON(A-M) | 1 | 1-42 | 335-6892-00 | LCD-HOLDER | 1 |
| 1-15 | 382-6606-01 | BUTTON(FNC/BND) | 1 | 1-43 | 347-6698-00 | SHADE | 1 |
| 1-16 | 382-6609-00 | BUTTON(FF/FB) | 1 | 1-44 | 345-7148-20 | LAMP CAP | 3 |
| 1-17 | 382-6610-01 | BUTTON(E/1/3/5/P) | 1 | 1-45 | 331-3337-00 | VR-HOLDER | 1 |
| 1-18 | 382-6611-00 | BUTTON(2/4/6) | 1 | 1-46 | 017-0444-00 | PILOT LAMP(14V 50mA) | 4 |
| 1-19 | 347-6994-00 | SHADE FILM | 1 | 1-47 | 013-6507-50 | LUMI SWITCH | 5 |
| 1-20 | 347-6993-00 | SHADE FILM | 1 | 1-48 | 013-6312-50 | SWITCH | 14 |
| 1-21 | 382-6612-00 | BUTTON(T/D) | 1 | 1-49 | 016-9900-84 | VR W/SHAFT | 1 |
| 1-22 | 060-4017-90 | IR-RECIEVER | 1 | 1-50 | 076-0615-00 | PLUG | 1 |
| 1-23 | 382-6613-00 | BUTTON(TA) | 1 | 1-51 | 051-6066-00 | IC | 1 |
| 1-24 | 382-6607-01 | BUTTON(Z/AF/EJ) | 1 | 1-52 | 347-7676-00 | FILM | 1 |
| 1-25 | 335-6898-00 | IR-FILTER | 1 | 1-53 | 347-7666-00 | SHADE | 1 |
| 1-26 | 347-6996-00 | CUSHION | 1 | 1-54 | 347-3814-87 | LAMP CAP | 1 |
| 1-27 | 347-6989-00 | CUSHION | 1 | | | | |

Main Section



| NO. | PARTS NO. | DESCRIPTION | Q'TY |
|-----|-------------|--------------------------------|------|
| 2 | 346-0097-00 | LEATHER SHEET | 1 |
| 3 | 780-2607-02 | MACHINE SCREW(M2.6x7) | 2 |
| 4 | 750-3173-00 | SPRING | 2 |
| 5 | 382-4078-00 | BUTTON (P-OUT) | 1 |
| 6 | 331-2594-00 | HOOK PLATE | 1 |
| 7 | 335-5915-01 | HOOK | 1 |
| 8 | 716-0778-00 | SCREW(M2x6) | 2 |
| 9 | 816-2627-50 | FALT WIRE | 1 |
| 10 | 750-3219-00 | SPRING(F-HOOK) | 1 |
| 11 | 341-1627-00 | SHAFT | 1 |
| 12 | 714-3004-81 | MACHINE SCREW(M3x4) | 3 |
| 13 | 714-2603-80 | MACHINE SCREW(M2.6x3) | 3 |
| 14 | 331-3570-00 | MECH-SUB-BRKT(L) | 1 |
| 15 | 929-0221-80 | CD-MECH-MODULE | 1 |
| 16 | 331-3427-00 | MECH BRKT(B) | 1 |
| 17 | 714-3006-81 | MACHINE SCREW(M3x6) | 11 |
| 18 | 313-1866-00 | HEAT SINK | 1 |
| 19 | 345-3799-20 | RUBBER PART | 4 |
| 20 | 855-5428-50 | RCA-PIN-CORD | 1 |
| 21 | 310-1778-00 | UPPER CASE | 1 |
| 22 | 331-3562-01 | CONNECTOR-HOLD | 1 |
| 23 | 060-0057-57 | AUTO FUSE(15A) | 1 |
| 24 | 074-1285-00 | OUTLET SOCKET | 1 |
| 25 | 039-1400-30 | ISO PWB (WITHOUT COMPONENT) | 1 |

| NO. | PARTS NO. | DESCRIPTION | Q'TY |
|-----|-------------|---------------------------------|------|
| 26 | 313-1867-00 | HEAT SINK | 1 |
| 27 | 331-3569-00 | MECH-SUB-BRKT(R) | 1 |
| 28 | 370-6027-00 | ESCUTCHEON(I) | 1 |
| 29 | 291-0067-00 | STICKER | 1 |
| 30 | 286-6123-00 | SETPLATE | 1 |
| 31 | 311-1859-02 | LOWER CASE | 1 |
| 32 | 347-6880-00 | INSULATOR | 1 |
| 33 | 074-1217-00 | OUTLET SOCKET | 1 |
| 34 | 039-2297-00 | MAIN PWB (WITHOUT COMPONENT) | 1 |
| 35 | 051-3297-10 | IC | 1 |
| 36 | 321-1036-00 | CLAMP | 1 |
| 37 | 042-0447-00 | ALUMI-ELE-C | 1 |
| 38 | 009-9006-60 | CHOKE | 1 |
| 39 | 051-2050-00 | IC | 1 |
| 40 | 074-1194-00 | OUTLET SOCKET | 1 |
| 41 | 331-3560-01 | IC HOLDER | 1 |
| 42 | 331-3567-00 | CONNECTOR-HOLD | 1 |
| 43 | 345-5312-00 | CUSHION | 1 |
| 44 | 092-4000-51 | ANT-RECEPT | 1 |
| 45 | 347-6341-00 | E-SHEET | 1 |
| 46 | 880-2090C | TUNER | 1 |
| 47 | 074-1237-76 | OUTLET SOCKET | 1 |
| 48 | 013-6103-00 | TACT SWITCH | 1 |

ELECTRICAL PARTS LIST

Main PWB section (B1)

| REF No. | PART No. | DESCRIPTION | REF No. | PART No. | DESCRIPTION | REF No. | PART No. | DESCRIPTION |
|---------|-------------|-------------|---------|-------------|-------------|---------|-------------|------------------|
| C 2 | 166-2201-50 | 50V 22pF | C 131 | 172-3331-15 | 50V 0.033uF | C 616 | 183-1063-37 | 16V 10uF |
| C 3 | 166-2201-50 | 50V 22pF | C 132 | 172-3331-15 | 50V 0.033uF | C 617 | 182-2263-37 | 16V 22uF |
| C 4 | 168-1032-55 | 50V 0.01uF | C 133 | 172-3331-15 | 50V 0.033uF | C 619 | 166-1011-50 | 50V 100pF |
| C 6 | 168-2232-55 | 25V 0.022uF | C 134 | 172-3331-15 | 50V 0.033uF | C 624 | 166-1011-50 | 50V 100pF |
| C 8 | 182-4753-57 | 35V 4.7uF | C 135 | 172-3331-15 | 50V 0.033uF | C 801 | 168-2232-55 | 25V 0.022uF |
| C 9 | 168-1032-55 | 50V 0.01uF | C 136 | 172-3331-15 | 50V 0.033uF | C 802 | 166-8211-50 | 50V 820pF |
| C 10 | 168-1022-55 | 50V 1000pF | C 137 | 172-3331-15 | 50V 0.033uF | C 803 | 166-6811-50 | 50V 680pF |
| C 11 | 182-1053-67 | 50V 1uF | C 140 | 182-2256-55 | 35V 2.2uF | C 804 | 168-1032-55 | 50V 0.01uF |
| C 12 | 168-3332-78 | 25V 0.033uF | C 141 | 182-2256-55 | 35V 2.2uF | C 805 | 168-2232-55 | 25V 0.022uF |
| C 13 | 168-1832-55 | 25V 0.018uF | C 142 | 182-2256-55 | 35V 2.2uF | C 806 | 182-2253-67 | 50V 2.2pF |
| C 14 | 168-1832-55 | 25V 0.018uF | C 143 | 182-2256-55 | 35V 2.2uF | C 807 | 166-3311-50 | 50V 330pF |
| C 17 | 182-4763-35 | 16V 47uF | C 210 | 182-2263-17 | 35V 2.2uF | C 808 | 166-4701-50 | 50V 47pF |
| C 18 | 168-2232-55 | 25V 0.022uF | C 214 | 042-0447-00 | 16V 2200uF | C 809 | 166-5601-50 | 50V 56pF |
| C 21 | 182-1073-35 | 16V 100uF | C 222 | 182-4763-39 | 16V 47uF | C 810 | 166-5611-50 | 50V 560pF |
| C 22 | 182-4763-35 | 16V 47uF | C 223 | 172-2231-15 | 50V 0.022uF | C 811 | 182-4763-17 | 6.3V 47uF |
| C 23 | 168-1222-55 | 50V 1200pF | C 224 | 182-2263-37 | 16V 22uF | C 812 | 168-1045-56 | 50V 0.1uF |
| C 24 | 168-1045-56 | 50V 0.1uF | C 225 | 182-1073-39 | 16V 100uF | D 102 | 001-0466-90 | S5688B |
| C 25 | 182-1053-67 | 50V 1uF | C 227 | 182-1063-37 | 16V 10uF | D 103 | 001-0466-90 | S5688B |
| C 26 | 168-8222-55 | 50V 8200pF | C 228 | 182-4763-39 | 16V 47uF | D 104 | 001-0466-90 | S5688B |
| C 27 | 182-4763-19 | 6.3V 47uF | C 229 | 182-1063-37 | 16V 10uF | D 105 | 001-0466-90 | S5688B |
| C 28 | 168-1032-55 | 50V 0.01uF | C 230 | 173-1021-18 | 50V 1000pF | D 106 | 001-0466-90 | S5688B |
| C 29 | 166-1011-50 | 50V 100pF | C 243 | 182-1073-29 | 10V 100uF | D 107 | 001-0466-90 | S5688B |
| C 30 | 166-1011-50 | 50V 100pF | C 244 | 182-1073-17 | 6.3V 100uF | D 108 | 001-0466-90 | S5688B |
| C 31 | 166-3311-50 | 50V 330pF | C 246 | 168-1032-55 | 50V 0.01uF | D 109 | 001-0466-90 | S5688B |
| C 32 | 166-1801-50 | 50V 18pF | C 458 | 182-2263-17 | 6.3V 22uF | D 110 | 001-0347-41 | MA4075M |
| C 33 | 166-1801-50 | 50V 18pF | C 459 | 182-2263-17 | 6.3V 22uF | D 201 | 001-0466-90 | S5688B |
| C 34 | 166-1011-50 | 50V 100pF | C 460 | 182-2263-17 | 6.3V 22uF | D 202 | 001-0516-90 | MA111 |
| C 35 | 168-1032-55 | 50V 0.01uF | C 461 | 182-2263-17 | 6.3V 22uF | D 203 | 001-0592-00 | RM4Z |
| C 36 | 168-1032-55 | 50V 0.01uF | C 500 | 182-1053-67 | 50V 1uF | D 204 | 001-0466-90 | S5688B |
| C 37 | 168-1022-55 | 50V 1000pF | C 501 | 182-1053-67 | 50V 1uF | D 221 | 001-0516-90 | MA111 |
| C 101 | 166-1011-50 | 50V 100pF | C 502 | 182-1053-67 | 50V 1uF | D 225 | 001-0466-91 | S5688G |
| C 102 | 178-2242-78 | 25V 0.22uF | C 503 | 182-1053-67 | 50V 1uF | D 501 | 001-0516-90 | MA111 |
| C 103 | 178-2242-78 | 25V 0.22uF | C 504 | 182-1063-37 | 16V 10uF | D 502 | 001-0516-90 | MA111 |
| C 104 | 178-2242-78 | 25V 0.22uF | C 505 | 182-1063-37 | 16V 10uF | D 503 | 001-0347-23 | MA4043M |
| C 105 | 178-2242-78 | 25V 0.22uF | C 506 | 182-1063-37 | 16V 10uF | D 603 | 001-0516-90 | MA111 |
| C 106 | 182-4763-39 | 16V 47uF | C 507 | 182-1063-37 | 16V 10uF | D 606 | 001-0516-90 | MA111 |
| C 107 | 182-2263-37 | 16V 22uF | C 512 | 182-4763-19 | 6.3V 47uF | D 610 | 001-0516-90 | MA111 |
| C 108 | 172-2231-15 | 50V 0.022pF | C 514 | 182-1063-37 | 16V 10uF | D 611 | 001-0516-90 | MA111 |
| C 109 | 182-2253-67 | 50V 2.2pF | C 515 | 182-4763-39 | 16V 47uF | D 801 | 001-0516-90 | MA111 |
| C 118 | 166-1011-50 | 50V 100pF | C 516 | 168-1045-56 | 50V 0.1uF | D 802 | 001-0516-90 | MA111 |
| C 119 | 166-1011-50 | 50V 100pF | C 517 | 168-4722-55 | 50V 4700pF | IC 1 | 051-6201-90 | LC72146M |
| C 120 | 166-4711-50 | 50V 470pF | C 518 | 168-4722-55 | 50V 4700pF | IC 101 | 051-2050-00 | LA47532 |
| C 121 | 166-4711-50 | 50V 470pF | C 519 | 182-1053-67 | 50V 1uF | IC 102 | 051-3297-10 | BA4916-V2 |
| C 122 | 166-4711-50 | 50V 470pF | C 520 | 182-1053-67 | 50V 1uF | IC 501 | 051-5028-90 | TDA7409 |
| C 123 | 166-4711-50 | 50V 470pF | C 543 | 166-1011-50 | 50V 100pF | IC 502 | 051-0350-93 | NJM4558M |
| C 124 | 166-4711-50 | 50V 470pF | C 544 | 166-1011-50 | 50V 100pF | IC 505 | 051-5437-08 | S-80821CNMC |
| C 125 | 166-4711-50 | 50V 470pF | C 545 | 166-1011-50 | 50V 100pF | IC 601 | 052-3928-00 | M30624MG A-156GP |
| C 126 | 166-4711-50 | 50V 470pF | C 546 | 166-1011-50 | 50V 100pF | IC 602 | 051-6600-38 | CA0008AM |
| C 127 | 166-4711-50 | 50V 470pF | C 601 | 042-0650-00 | 5.5V 0.1F | IC 801 | 051-0350-93 | NJM4558M |
| C 128 | 166-1011-50 | 50V 100pF | C 612 | 168-4732-78 | 25V 0.047uF | IC 802 | 051-4607-90 | SAA6581T |
| C 129 | 166-1011-50 | 50V 100pF | C 614 | 168-1032-55 | 50V 0.01uF | J 601 | 074-1194-00 | OUTLET SOCKET |
| C 130 | 172-3331-15 | 50V 0.033uF | C 615 | 042-0577-00 | 6.3V 100uF | | | |

| REF No. | PART No. | DESCRIPTION | REF No. | PART No. | DESCRIPTION | REF No. | PART No. | DESCRIPTION |
|---------|-------------|---------------|---------|-------------|---------------|---------|-------------|-----------------|
| J 602 | 074-1237-76 | OUTLET SOCKET | R 6 | 119-4721-15 | 1/16W 4.7Kohm | R 479 | 119-3311-15 | 1/16W 330ohm |
| J 604 | 074-1217-00 | OUTLET SOCKET | R 7 | 119-5621-15 | 1/16W 5.6Kohm | R 481 | 119-1021-15 | 1/16W 1Kohm |
| L 1 | 010-2003-04 | COIL | R 8 | 119-1021-15 | 1/16W 1Kohm | R 482 | 119-1021-15 | 1/16W 1Kohm |
| L 2 | 010-2230-88 | 220uH | R 9 | 119-1031-15 | 1/16W 10Kohm | R 501 | 032-0140-58 | 1/10W 51Kohm(F) |
| L 3 | 010-2285-56 | BLM21B222S | R 10 | 116-3311-15 | 1/4WS 330ohm | R 502 | 032-0140-58 | 1/10W 51Kohm(F) |
| L 4 | 010-2285-56 | BLM21B222S | R 11 | 119-1031-15 | 1/16W 10Kohm | R 503 | 032-0140-58 | 1/10W 51Kohm(F) |
| L 5 | 010-2230-76 | 22uH | R 12 | 119-2221-15 | 1/16W 2.2Kohm | R 504 | 032-0140-58 | 1/10W 51Kohm(F) |
| L 401 | 010-2285-56 | BLM21B222S | R 13 | 119-5631-15 | 1/16W 56Kohm | R 505 | 032-0140-51 | 1/10W 15Kohm(F) |
| L 402 | 010-2285-56 | BLM21B222S | R 14 | 119-1031-15 | 1/16W 10Kohm | R 506 | 032-0140-51 | 1/10W 15Kohm(F) |
| L 403 | 010-2285-56 | BLM21B222S | R 15 | 119-1031-15 | 1/16W 10Kohm | R 507 | 032-0140-51 | 1/10W 15Kohm(F) |
| L 404 | 010-2285-56 | BLM21B222S | R 16 | 119-1231-15 | 1/16W 12Kohm | R 508 | 032-0140-51 | 1/10W 15Kohm(F) |
| L 601 | 010-3100-66 | 2.2uH | R 17 | 119-5631-15 | 1/16W 56Kohm | R 509 | 119-3311-15 | 1/16W 330ohm |
| L 602 | 010-3100-66 | 2.2uH | R 18 | 119-1521-15 | 1/16W 1.5Kohm | R 537 | 119-8221-15 | 1/16W 8.2Kohm |
| L 603 | 010-3100-66 | 2.2uH | R 19 | 119-1521-15 | 1/16W 1.5Kohm | R 538 | 119-3321-15 | 1/16W 3.3Kohm |
| L 801 | 010-2230-88 | 220uH | R 20 | 119-1021-15 | 1/16W 1Kohm | R 540 | 119-2231-15 | 1/16W 22Kohm |
| Q 1 | 125-4012-90 | KTD1304 | R 21 | 119-2711-15 | 1/16W 270ohm | R 541 | 119-1021-15 | 1/16W 1Kohm |
| Q 2 | 125-0199-93 | KRA103S | R 22 | 119-1041-15 | 1/16W 100Kohm | R 551 | 119-4721-15 | 1/16W 4.7Kohm |
| Q 3 | 125-2199-93 | KRC103S | R 23 | 119-1031-15 | 1/16W 10Kohm | R 553 | 119-4721-15 | 1/16W 4.7Kohm |
| Q 4 | 125-3004-90 | KTA1504S | R 24 | 119-1021-15 | 1/16W 1Kohm | R 554 | 119-1011-15 | 1/16W 100ohm |
| Q 5 | 125-3004-90 | KTA1504S | R 25 | 119-1021-15 | 1/16W 1Kohm | R 555 | 119-1011-15 | 1/16W 100ohm |
| Q 6 | 198-0669-00 | 2SK669 | R 26 | 119-8211-15 | 1/16W 820ohm | R 556 | 119-1011-15 | 1/16W 100ohm |
| Q 210 | 125-0200-96 | KRA226S | R 101 | 119-1231-15 | 1/16W 12Kohm | R 557 | 119-1011-15 | 1/16W 100ohm |
| Q 211 | 125-2199-96 | KRC106S | R 102 | 119-1031-15 | 1/16W 10Kohm | R 603 | 116-6801-15 | 1/4WS 68ohm |
| Q 227 | 193-1802-61 | 2SD1802 | R 105 | 119-1021-15 | 1/16W 1Kohm | R 604 | 119-3321-15 | 1/16W 3.3Kohm |
| Q 228 | 125-4011-90 | KTD863 | R 106 | 119-3311-15 | 1/16W 330ohm | R 607 | 119-2231-15 | 1/16W 22Kohm |
| Q 250 | 125-0199-96 | KRA106S | R 107 | 119-3311-15 | 1/16W 330ohm | R 608 | 119-1031-15 | 1/16W 10Kohm |
| Q 251 | 125-2199-96 | KRC106S | R 108 | 119-3311-15 | 1/16W 330ohm | R 609 | 119-4731-15 | 1/16W 47Kohm |
| Q 452 | 125-4012-90 | KTD1304 | R 109 | 119-3311-15 | 1/16W 330ohm | R 610 | 119-4721-15 | 1/16W 4.7Kohm |
| Q 453 | 125-4012-90 | KTD1304 | R 130 | 116-2291-15 | 1/4WS 2.2ohm | R 611 | 119-1041-15 | 1/16W 100Kohm |
| Q 454 | 125-4012-90 | KTD1304 | R 131 | 116-2291-15 | 1/4WS 2.2ohm | R 612 | 119-1041-15 | 1/16W 100Kohm |
| Q 455 | 125-4012-90 | KTD1304 | R 132 | 116-2291-15 | 1/4WS 2.2ohm | R 613 | 119-4731-15 | 1/16W 47Kohm |
| Q 501 | 125-2199-96 | KRC106S | R 133 | 116-2291-15 | 1/4WS 2.2ohm | R 614 | 119-4731-15 | 1/16W 47Kohm |
| Q 502 | 125-0199-96 | KRA106S | R 134 | 116-2291-15 | 1/4WS 2.2ohm | R 615 | 119-1031-15 | 1/16W 10Kohm |
| Q 503 | 125-4010-90 | KTC3875S | R 135 | 116-2291-15 | 1/4WS 2.2ohm | R 616 | 119-4711-15 | 1/16W 470ohm |
| Q 505 | 125-3005-90 | KTA1273 | R 136 | 116-2291-15 | 1/4WS 2.2ohm | R 619 | 119-3311-15 | 1/16W 330ohm |
| Q 506 | 125-2199-96 | KRC106S | R 137 | 116-2291-15 | 1/4WS 2.2ohm | R 620 | 119-1031-15 | 1/16W 10Kohm |
| Q 507 | 125-2199-93 | KRC103S | R 204 | 119-3321-15 | 1/16W 3.3Kohm | R 621 | 116-1221-15 | 1/4WS 1.2Kohm |
| Q 508 | 125-0199-96 | KRA106S | R 205 | 119-1831-15 | 1/16W 18Kohm | R 623 | 119-1521-15 | 1/16W 1.5Kohm |
| Q 602 | 125-2199-93 | KRC103S | R 207 | 119-1231-15 | 1/16W 12Kohm | R 627 | 119-1031-15 | 1/16W 10Kohm |
| Q 603 | 125-3004-90 | KTA1504S | R 208 | 119-1011-15 | 1/16W 100ohm | R 628 | 116-1521-15 | 1/16W 1.5Kohm |
| Q 604 | 125-3004-90 | KTA1504S | R 209 | 119-3311-15 | 1/16W 330ohm | R 634 | 119-1031-15 | 1/16W 10Kohm |
| Q 606 | 125-2199-93 | KRC103S | R 210 | 119-1031-15 | 1/16W 10Kohm | R 635 | 119-3321-15 | 1/16W 3.3Kohm |
| Q 607 | 125-3007-90 | KTA1298 | R 211 | 119-2741-15 | 1/16W 270Kohm | R 642 | 119-1031-15 | 1/16W 10Kohm |
| Q 609 | 125-3007-90 | KTA1298 | R 212 | 119-5631-15 | 1/16W 56Kohm | R 643 | 119-5621-15 | 1/16W 5.6Kohm |
| Q 610 | 125-2199-93 | KRC103S | R 252 | 116-1521-15 | 1/4WS 1.5Kohm | R 652 | 119-1811-15 | 1/16W 180ohm |
| Q 611 | 125-3004-90 | KTA1504S | R 470 | 119-4721-15 | 1/16W 4.7Kohm | R 653 | 119-1811-15 | 1/16W 180ohm |
| Q 612 | 125-4010-90 | KTC3875S | R 471 | 119-4721-15 | 1/16W 4.7Kohm | R 654 | 119-1811-15 | 1/16W 180ohm |
| Q 620 | 125-2199-93 | KRC103S | R 472 | 119-4721-15 | 1/16W 4.7Kohm | R 657 | 119-1811-15 | 1/16W 180ohm |
| Q 801 | 125-2199-92 | KRC102S | R 473 | 119-4721-15 | 1/16W 4.7Kohm | R 658 | 119-1041-15 | 1/16W 100Kohm |
| R 3 | 119-2221-15 | 1/16W 2.2Kohm | R 476 | 119-3311-15 | 1/16W 330ohm | R 659 | 119-4731-15 | 1/16W 47Kohm |
| R 4 | 119-1021-15 | 1/16W 1Kohm | R 477 | 119-3311-15 | 1/16W 330ohm | R 660 | 119-1531-15 | 1/16W 15Kohm |
| R 5 | 119-3311-15 | 1/16W 330ohm | R 478 | 119-3311-15 | 1/16W 330ohm | R 661 | 119-4731-15 | 1/16W 47Kohm |

| REF No. | PART No. | DESCRIPTION | REF No. | PART No. | DESCRIPTION | REF No. | PART No. | DESCRIPTION |
|---------|-------------|---------------|---------|-------------|---------------|---------|-------------|-------------|
| R 662 | 119-2221-15 | 1/16W 2.2Kohm | R 801 | 119-3331-15 | 1/16W 33Kohm | SUP 1 | 060-0122-20 | |
| R 663 | 119-1031-15 | 1/16W 10Kohm | R 802 | 119-1031-15 | 1/16W 10Kohm | T 101 | 009-9006-60 | CHOKE |
| R 664 | 119-2221-15 | 1/16W 2.2Kohm | R 803 | 119-1041-15 | 1/16W 100Kohm | VR 101 | 012-4431-13 | 470Kohm |
| R 670 | 119-4731-15 | 1/16W 47Kohm | R 804 | 119-2211-15 | 1/16W 220ohm | X 1 | 061-1066-00 | 7.2MHZ |
| R 690 | 119-4721-15 | 1/16W 4.7Kohm | R 805 | 119-1231-15 | 1/16W 12Kohm | X 601 | 060-1505-50 | 10MHZ |
| R 691 | 119-4721-15 | 1/16W 4.7Kohm | R 806 | 119-3321-15 | 1/16W 3.3Kohm | X 801 | 061-3013-00 | 4.33MHZ |
| R 697 | 119-1031-15 | 1/16W 10Kohm | S 601 | 013-6103-00 | SWITCH | | | |

Switch PWB section (B2)

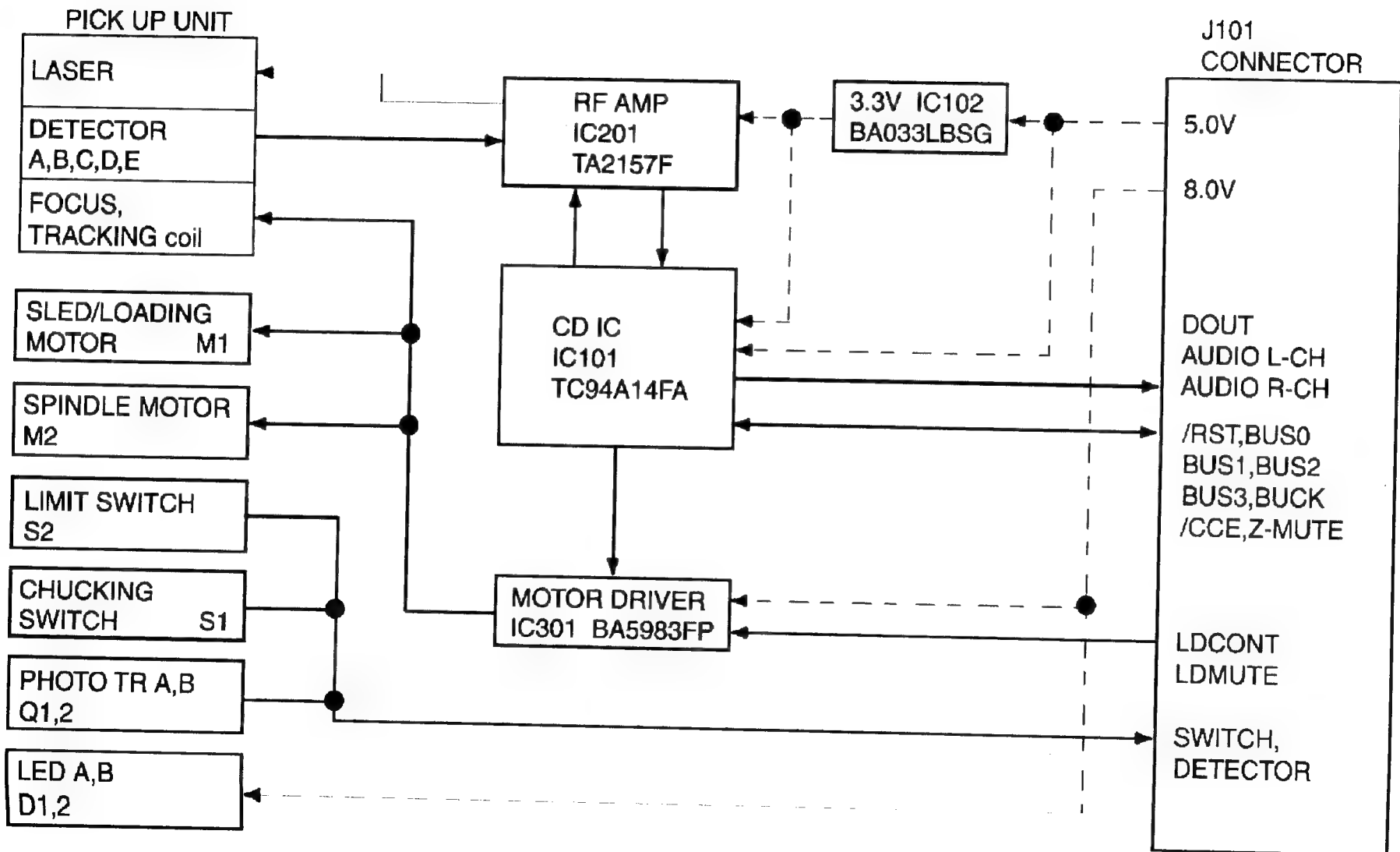
| REF No. | PART No. | DESCRIPTION | REF No. | PART No. | DESCRIPTION | REF No. | PART No. | DESCRIPTION |
|---------|-------------|--------------|---------|-------------|---------------|---------|-------------|-------------|
| C 702 | 168-4732-78 | 25V 0.047uF | PL 3 | 017-0444-00 | 14V 50MA | S 706 | 013-6312-50 | SWITCH |
| C 703 | 168-4732-78 | 25V 0.047uF | PL 4 | 017-0444-00 | 14V 50MA | S 707 | 013-6312-50 | SWITCH |
| C 704 | 042-0416-52 | 10V 10uF TAN | IR 701 | 060-4017-90 | IRSAC11 | S 708 | 013-6312-50 | SWITCH |
| C 705 | 042-0416-52 | 10V 10uF TAN | R 701 | 119-1031-15 | 1/16W 10Kohm | S 709 | 013-6312-50 | SWITCH |
| C 706 | 168-4732-78 | 25V 0.047uF | R 702 | 119-1011-15 | 1/16W 100ohm | S 711 | 013-6312-50 | SWITCH |
| D 711 | 001-7046-00 | DIODE | R 703 | 119-1021-15 | 1/16W 1Kohm | S 712 | 013-6312-50 | SWITCH |
| D 712 | 001-0584-27 | MA8110 | R 704 | 119-3311-15 | 1/16W 330ohm | S 713 | 013-6312-50 | SWITCH |
| D 713 | 001-0529-29 | MA8051M | R 705 | 119-1041-15 | 1/16W 100Kohm | S 714 | 013-6507-50 | LUMI SWITCH |
| D 714 | 001-0529-41 | MA8075M | R 706 | 119-3921-15 | 1/16W 3.9Kohm | S 715 | 013-6312-50 | SWITCH |
| D 715 | 001-0529-41 | MA8075M | R 707 | 119-2711-15 | 1/16W 270ohm | S 716 | 013-6507-50 | LUMI SWITCH |
| D 716 | 001-0529-41 | MA8075M | S 701 | 013-6312-50 | SWITCH | S 718 | 013-6507-50 | LUMI SWITCH |
| D 717 | 001-0529-41 | MA8075M | S 702 | 013-6312-50 | SWITCH | S 719 | 013-6312-50 | SWITCH |
| IC 701 | 051-6066-00 | NJU6535 | S 703 | 013-6312-50 | SWITCH | S 720 | 013-6507-50 | LUMI SWITCH |
| P 703 | 076-0615-00 | PLUG | S 704 | 013-6312-50 | SWITCH | S 721 | 013-6507-50 | LUMI SWITCH |
| PL 1 | 017-0444-00 | 14V 50MA | S 705 | 013-6312-50 | SWITCH | VR 720 | 016-9900-84 | VREMR1514 |
| PL 2 | 017-0444-00 | 14V 50MA | | | | | | |

ISO PWB section (B3)

| REF No. | PART No. | DESCRIPTION |
|---------|-------------|-------------|
| J903 | 074-1285-00 | ISO |
| FUSE | 060-0057-57 | 15A |

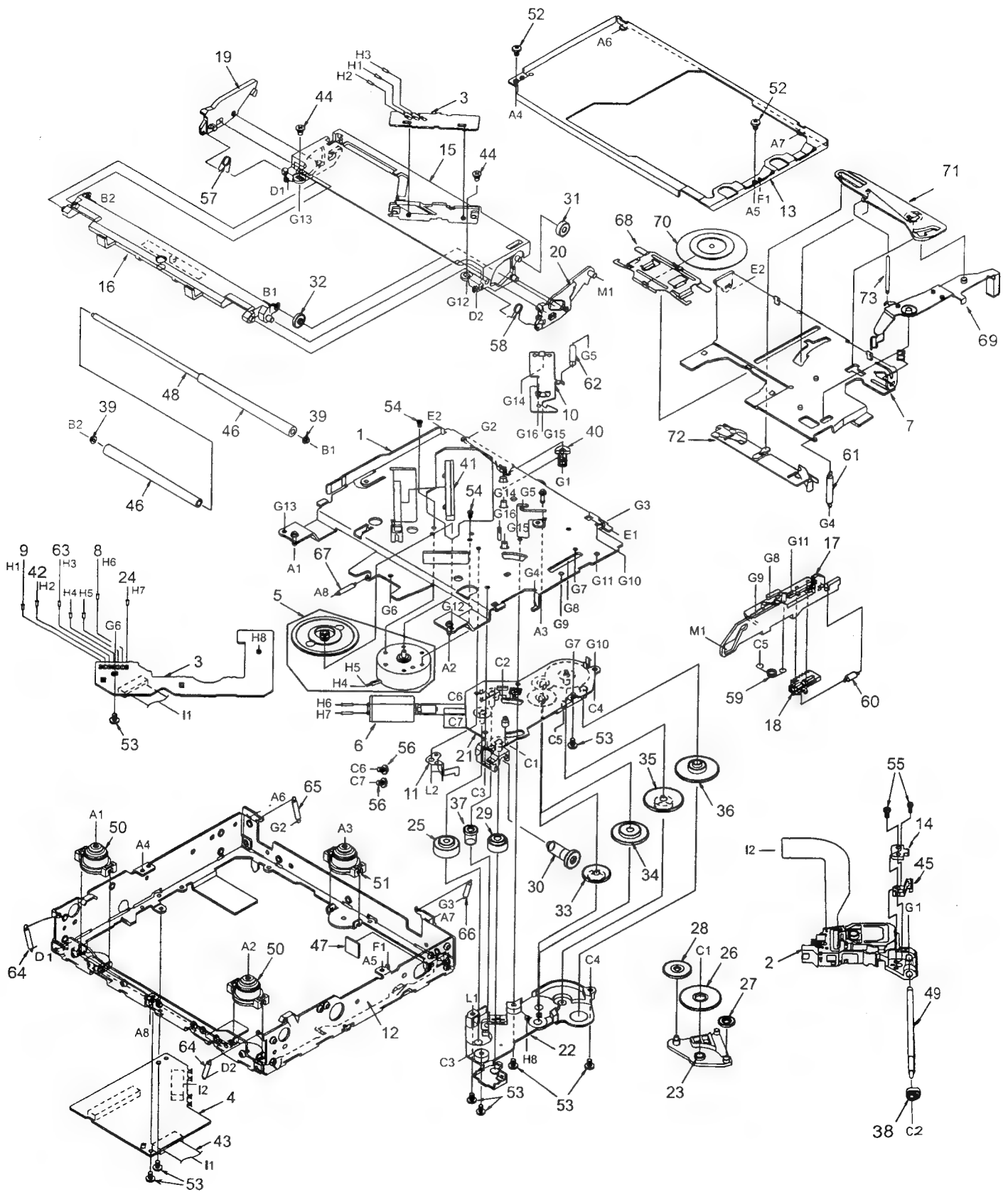
BLOCK DIAGRAM

CD mechanism section 929-0221-80



EXPLODED VIEW:

CD mechanism section 929-0221-80



PARTS LIST:

CD mechanism section 929-0221-80

| NO. | PARTS NO. | DESCRIPTION | QTY |
|-----|-------------|--------------------------------|-----|
| 1 | 966-0595-25 | DRIVE PLATE ASSY | 1 |
| 2 | 969-0065-30 | PICK UP UNIT | 1 |
| 3 | 039-1944-21 | LED PWB (WITHOUT COMPONENT) | 1 |
| 4 | 039-1945-20 | CD PWB (WITHOUT COMPONENT) | 1 |
| 5 | SMA-182-100 | MOTOR ASSY(SPINDLE) | 1 |
| 6 | SMA-183-100 | MOTOR ASSY(SLED) | 1 |
| 7 | 620-1022-24 | CLAMPER LINK | 1 |
| 8 | 803-4906-60 | VINYL COAT WIRE(ORG) | 1 |
| 9 | 816-2591-00 | LEAD WIRE(YEL) | 1 |
| 10 | 620-1025-22 | ID-LOCK PLATE | 1 |
| 11 | 620-1026-21 | SPRING PLATE | 1 |
| 12 | 620-1027-25 | LOWER CHASSIS | 1 |
| 13 | 620-1028-22 | UPPER CHASSIS | 1 |
| 14 | 966-0638-20 | SH-RACK-ASSY | 1 |
| 15 | 621-0598-26 | UPPER GUIDE | 1 |
| 16 | 621-0599-25 | ROLLER GUIDE | 1 |
| 17 | 621-0600-25 | SHIFT LEVER | 1 |
| 18 | 621-0601-21 | RACK | 1 |
| 19 | 621-0602-22 | LOCK ARM(L) | 1 |
| 20 | 621-0603-25 | LOCK ARM(R) | 1 |
| 21 | 621-0604-22 | GEAR BASE | 1 |
| 22 | 621-0605-22 | GEAR COVER | 1 |
| 23 | 621-0606-21 | IDLE CASE | 1 |
| 24 | 816-2590-00 | VINYL COAT WIRE(GRN) | 1 |
| 25 | 621-0608-21 | SECOND GEAR | 1 |
| 26 | 621-0609-20 | BASE GEAR | 1 |
| 27 | 621-0610-20 | IDLE GEAR A | 1 |
| 28 | 621-0611-20 | IDLE GEAR B | 1 |
| 29 | 621-0612-21 | ROLLER GEAR A | 1 |
| 30 | 621-0613-20 | ROLLER GEAR B | 1 |
| 31 | 621-0614-20 | ROLLER GEAR C | 1 |
| 32 | 621-0615-21 | ROLLER GEAR D | 1 |
| 33 | 621-0616-20 | POWER GEAR A | 1 |
| 34 | 621-0617-20 | POWER GEAR B | 1 |
| 35 | 621-0618-20 | POWER GEAR C | 1 |
| 36 | 621-0619-20 | POWER GEAR D | 1 |

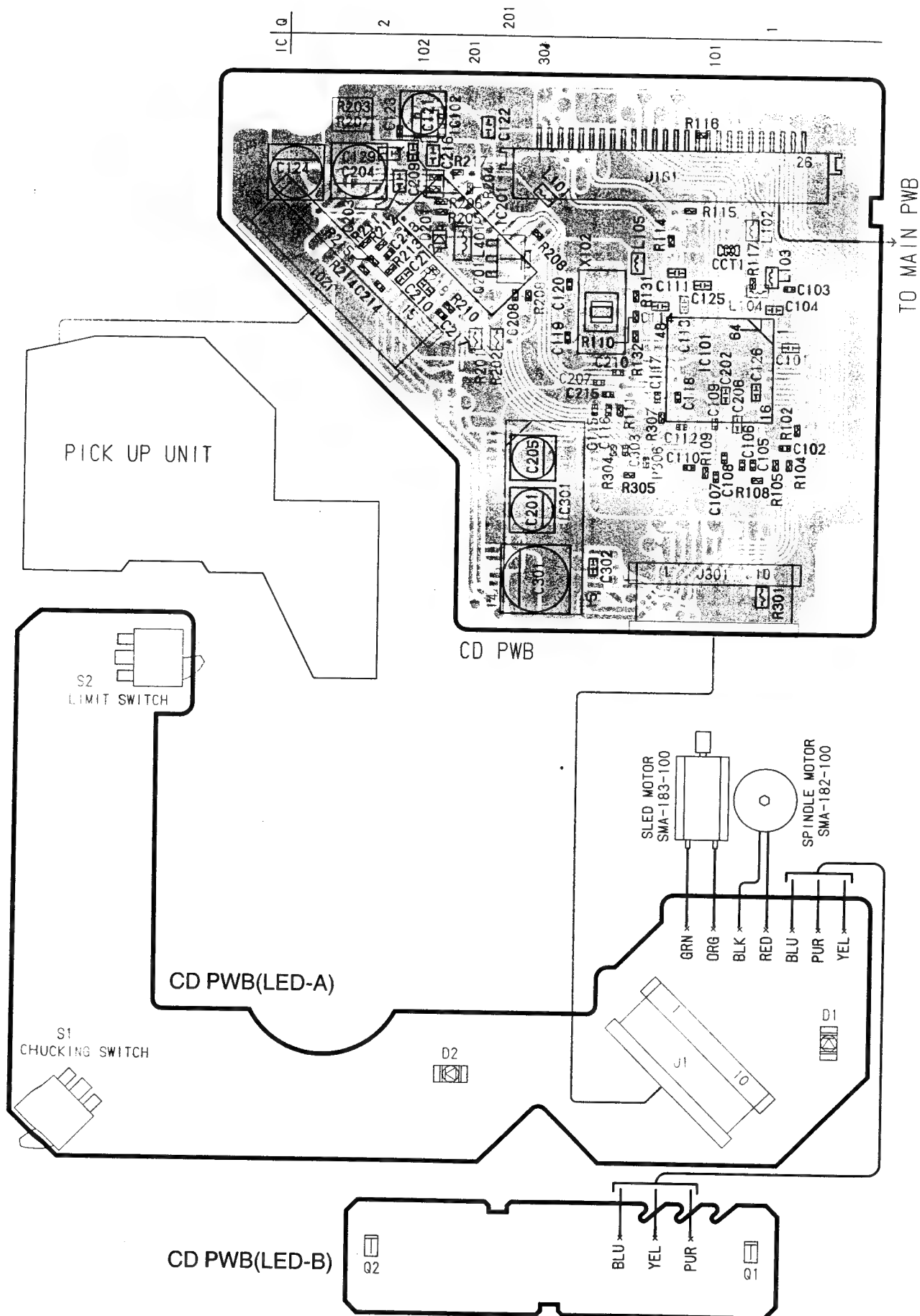
| NO. | PARTS NO. | DESCRIPTION | QTY |
|-----|-------------|------------------|-----|
| 37 | 621-0620-20 | THREAD GEAR A | 1 |
| 38 | 621-0621-20 | THREAD GEAR B | 1 |
| 39 | 621-0622-21 | ROLLER SLEEVE | 2 |
| 40 | 621-0623-22 | LS-HOLDER | 1 |
| 41 | 621-0624-22 | GUIDE RAIL | 1 |
| 42 | 816-2593-00 | LEAD WIRE(PUR) | 1 |
| 43 | 816-2542-01 | FLAT WIRE(10P) | 1 |
| 44 | 716-3473-00 | SCREW | 2 |
| 45 | 621-0709-20 | SH-BASE | 1 |
| 46 | 621-0629-20 | LOADING ROLLER | 2 |
| 47 | 345-8704-20 | CUSHION RUBBER | 1 |
| 48 | 622-1571-21 | ROLLER SHAFT | 1 |
| 49 | 624-0018-01 | LEAD SCREW | 1 |
| 50 | 629-0081-20 | DAMPER F | 2 |
| 51 | 629-0082-20 | DAMPER R | 1 |
| 52 | 714-2003-81 | MACHINE SCREW | 2 |
| 53 | 716-1507-00 | SCREW | 8 |
| 54 | 716-1733-00 | SCREW | 2 |
| 55 | 716-3469-00 | SCREW | 2 |
| 56 | 716-3446-00 | SCREW | 2 |
| 57 | 750-3465-21 | ROLLER SPRING(L) | 1 |
| 58 | 750-3466-20 | ROLLER SPRING(R) | 1 |
| 59 | 750-3467-21 | SHIFT SPRING | 1 |
| 60 | 750-3468-20 | RACK SPRING | 1 |
| 61 | 750-3469-20 | CLAMPER SPRING | 1 |
| 62 | 750-3470-20 | ID-LOCK SPRING | 1 |
| 63 | 816-2592-00 | LEAD WIRE(BLU) | 1 |
| 64 | 750-3472-21 | DR-SPRING F | 2 |
| 65 | 750-3473-20 | DR-SPRING RA | 1 |
| 66 | 750-3474-20 | DR-SPRING RB | 1 |
| 67 | 750-3475-21 | DR-SPRING C | 1 |
| 68 | 620-1023-23 | CLAMPER PLATE | 1 |
| 69 | 620-1024-23 | SENSOR ARM | 1 |
| 70 | 621-0708-20 | CLAMPER RING | 1 |
| 71 | 621-0626-21 | STOPPER LINK | 1 |
| 72 | 621-0627-21 | DISC STOPPER | 1 |
| 73 | 750-3471-20 | SENSOR SPRING | 1 |

ELECTRICAL PARTS LIST :

CD mechanism section 929-0221-80

| REF No. | PART No. | DESCRIPTION | REF No. | PART No. | DESCRIPTION | REF No. | PART No. | DESCRIPTION |
|---------|-------------|-------------|---------|-------------|----------------|---------|-------------|----------------|
| C 101 | 168-1042-78 | 0.1uF | C 209 | 168-1042-78 | 0.1uF | R 115 | 033-2211-15 | 1/16W 220 ohm |
| C 102 | 045-4701-50 | 47pF | C 210 | 043-0533-50 | 0.047uF | R 116 | 033-1031-15 | 1/16W 10k ohm |
| C 103 | 046-4722-58 | 4700pF | C 211 | 168-1042-78 | 0.1uF | R 117 | 033-1021-15 | 1/16W 1k ohm |
| C 104 | 168-1042-78 | 0.1uF | C 212 | 168-1042-78 | 0.1uF | R 131 | 033-4711-15 | 1/16W 470 ohm |
| C 105 | 046-1532-78 | 0.015uF | C 213 | 045-5096-50 | 5pF | R 132 | 033-2211-15 | 1/16W 220 ohm |
| C 106 | 046-1032-78 | 0.01uF | C 214 | 045-5601-50 | 56pF | R 201 | 117-2201-15 | 1/10W 22 ohm |
| C 107 | 046-1032-78 | 0.01uF | C 215 | 043-0533-50 | 0.047uF | R 202 | 117-2201-15 | 1/10W 22 ohm |
| C 108 | 046-4722-58 | 4700pF | C 216 | 178-1052-78 | 1uF | R 203 | 033-1041-15 | 1/16W 100k ohm |
| C 109 | 046-1522-58 | 1500pF | C 217 | 045-1011-50 | 100pF | R 204 | 033-1041-15 | 1/16W 100k ohm |
| C 110 | 046-3332-78 | 0.033uF | C 301 | 163-1073-35 | 16V 100uF | R 205 | 033-1541-15 | 1/16W 150k ohm |
| C 111 | 168-1042-78 | 0.1uF | C 302 | 168-1042-78 | 0.1uF | R 206 | 033-1541-15 | 1/16W 150k ohm |
| C 112 | 046-3332-78 | 0.033uF | C 303 | 043-0533-50 | 0.047uF | R 207 | 033-1041-15 | 1/16W 100k ohm |
| C 113 | 168-1042-78 | 0.1uF | D 201 | 001-0516-90 | MA111 | R 208 | 033-8231-15 | 1/16W 82k ohm |
| C 114 | 168-1042-78 | 0.1uF | IC 101 | 051-6376-00 | TC94A14FA | R 209 | 033-6811-15 | 1/16W 680 ohm |
| C 115 | 046-4712-58 | 470pF | IC 102 | 051-3279-90 | BA033LBSG | R 210 | 033-6831-15 | 1/16W 68k ohm |
| C 116 | 046-4712-58 | 470pF | IC 201 | 051-5710-90 | TA2157F | R 211 | 033-1831-15 | 1/16W 18k ohm |
| C 117 | 043-0533-50 | 0.047uF | IC 301 | 051-6049-08 | BA5983FP-E2 | R 212 | 033-2721-15 | 1/16W 2.7k ohm |
| C 118 | 043-0533-50 | 0.047uF | J 101 | 074-1228-76 | 26P | R 213 | 033-1011-15 | 1/16W 100 ohm |
| C 119 | 045-2701-50 | 27pF | J 201 | 074-1138-65 | 15P | R 214 | 033-1021-15 | 1/16W 1k ohm |
| C 120 | 045-1801-50 | 18pF | J 301 | 074-1138-60 | 10P | R 215 | 033-1031-15 | 1/16W 10k ohm |
| C 121 | 163-1063-35 | 16V 10uF | L 101 | 010-2285-57 | BLM21B102SPT | R 217 | 033-1041-15 | 1/16W 100k ohm |
| C 122 | 178-1052-78 | 1uF | L 102 | 010-2285-57 | BLM21B102SPT | R 218 | 033-2211-15 | 1/16W 220 ohm |
| C 123 | 046-1032-78 | 0.01uF | L 103 | 010-2285-57 | BLM21B102SPT | R 301 | 117-6811-15 | 1/16W 680 ohm |
| C 124 | 163-1073-05 | 4V 100uF | L 104 | 010-2285-57 | BLM21B102SPT | R 304 | 033-3921-15 | 1/16W 3.9k ohm |
| C 125 | 168-1042-78 | 0.1uF | L 105 | 010-2285-57 | BLM21B102SPT | R 305 | 033-3921-15 | 1/16W 3.9k ohm |
| C 126 | 168-1042-78 | 0.1uF | L 401 | 010-3050-93 | 10uH | R 306 | 033-1041-15 | 1/16W 100k ohm |
| C 129 | 178-1052-78 | 1uF | Q 201 | 131-1188-50 | 2SB1188 | R 307 | 033-2211-15 | 1/16W 220 ohm |
| C 201 | 163-3363-05 | 4V 33uF | R 102 | 033-5621-15 | 1/16W 5.6k ohm | X 102 | 060-1528-90 | 16.934M |
| C 202 | 168-1042-78 | 0.1uF | R 104 | 033-4731-15 | 1/16W 47k ohm | D 1 | 001-7058-90 | AN1105W-RR |
| C 203 | 178-1052-78 | 1uF | R 105 | 033-1041-15 | 1/16W 100k ohm | D 2 | 001-7058-90 | AN1105W-RR |
| C 204 | 163-1073-05 | 4V 100uF | R 108 | 033-1531-15 | 1/16W 15k ohm | J 1 | 074-1138-60 | 10P |
| C 205 | 163-3363-05 | 4V 33uF | R 109 | 033-1031-15 | 1/16W 10k ohm | Q 1 | 060-4015-90 | PS1192H |
| C 206 | 168-1042-78 | 0.1uF | R 110 | 033-1051-15 | 1/16W 1M ohm | Q 2 | 060-4015-90 | PS1192H |
| C 207 | 043-0533-50 | 0.047uF | R 111 | 033-3321-15 | 1/16W 3.3k ohm | S 1 | 013-7414-50 | CHUCKING |
| C 208 | 046-6822-58 | 6800pF | R 114 | 033-2211-15 | 1/16W 220 ohm | S 2 | 013-7413-50 | LIMIT |

PRINTED WIRING BOARD :
CD mechanism section 929-0221-80

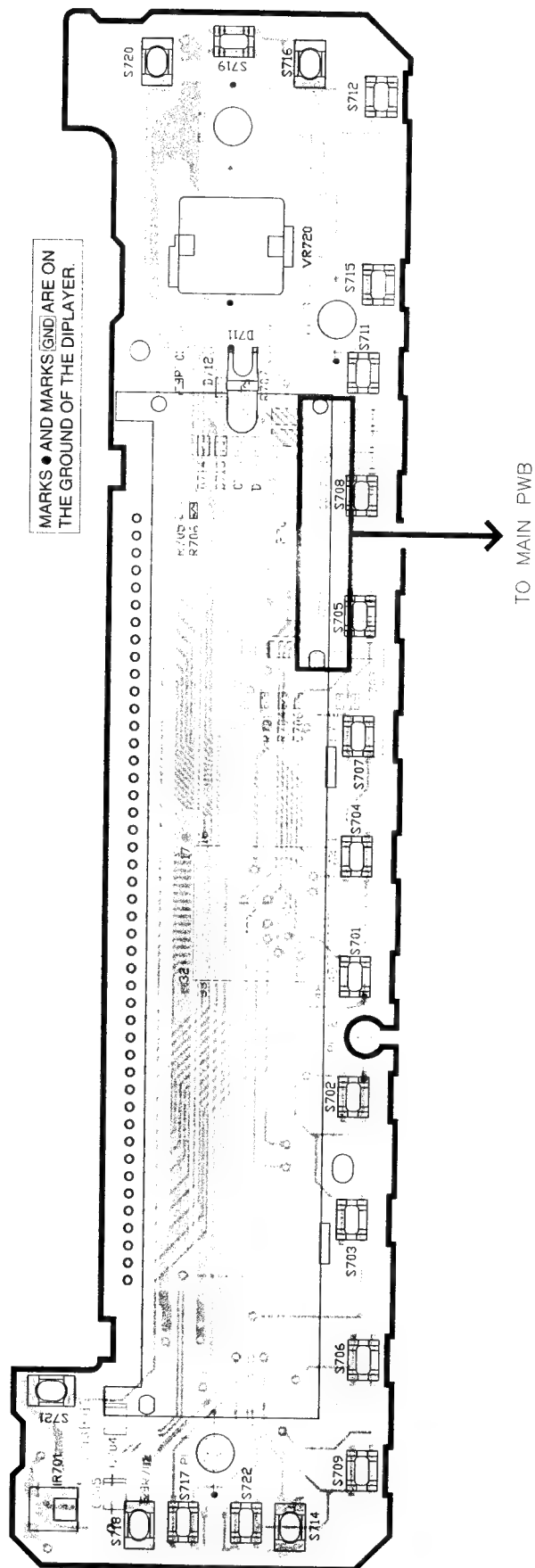


CD mechanism section 929-0221-80

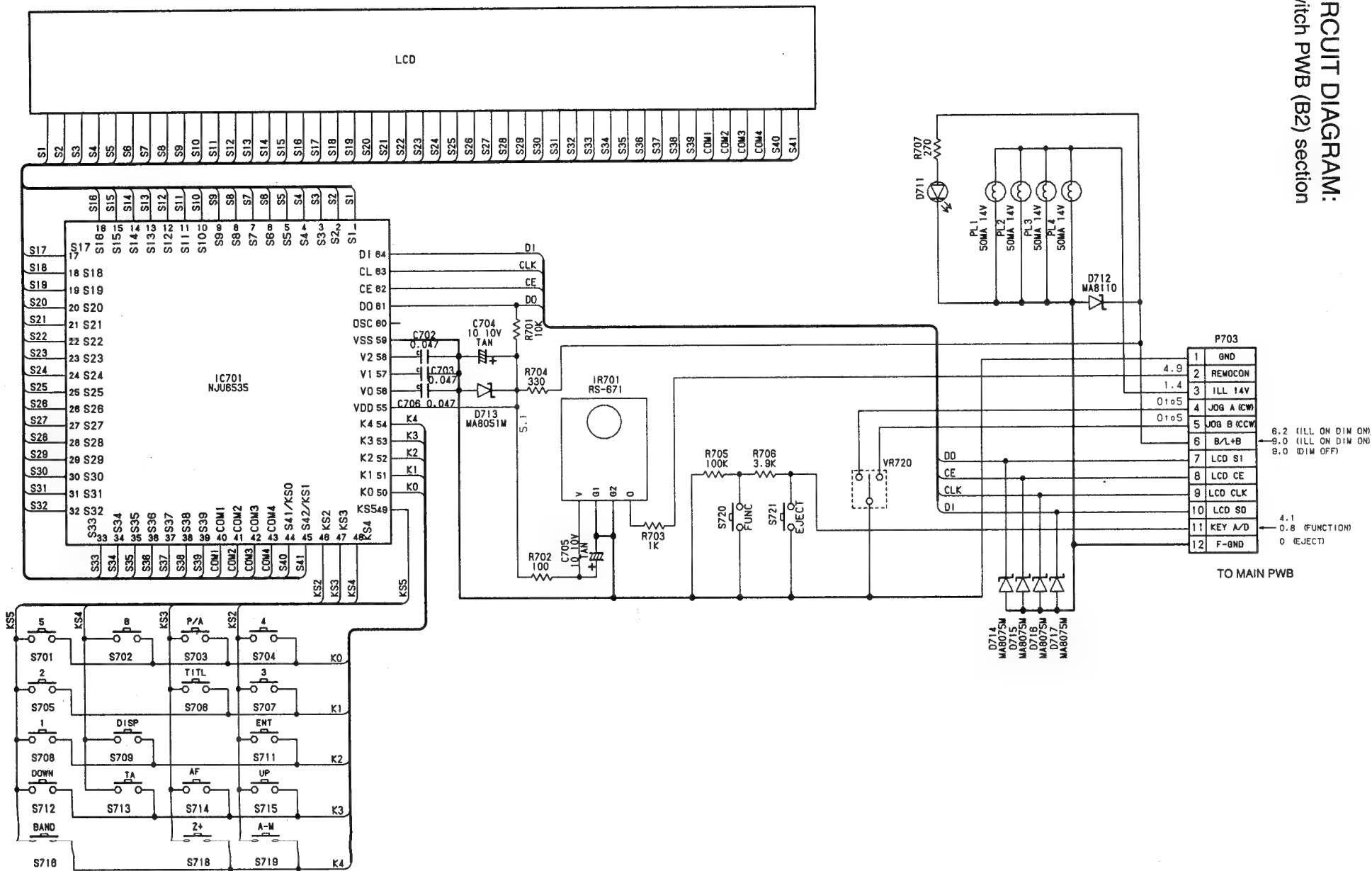


PRINTED WIRING BOARD:

Switch PWB (B2) section

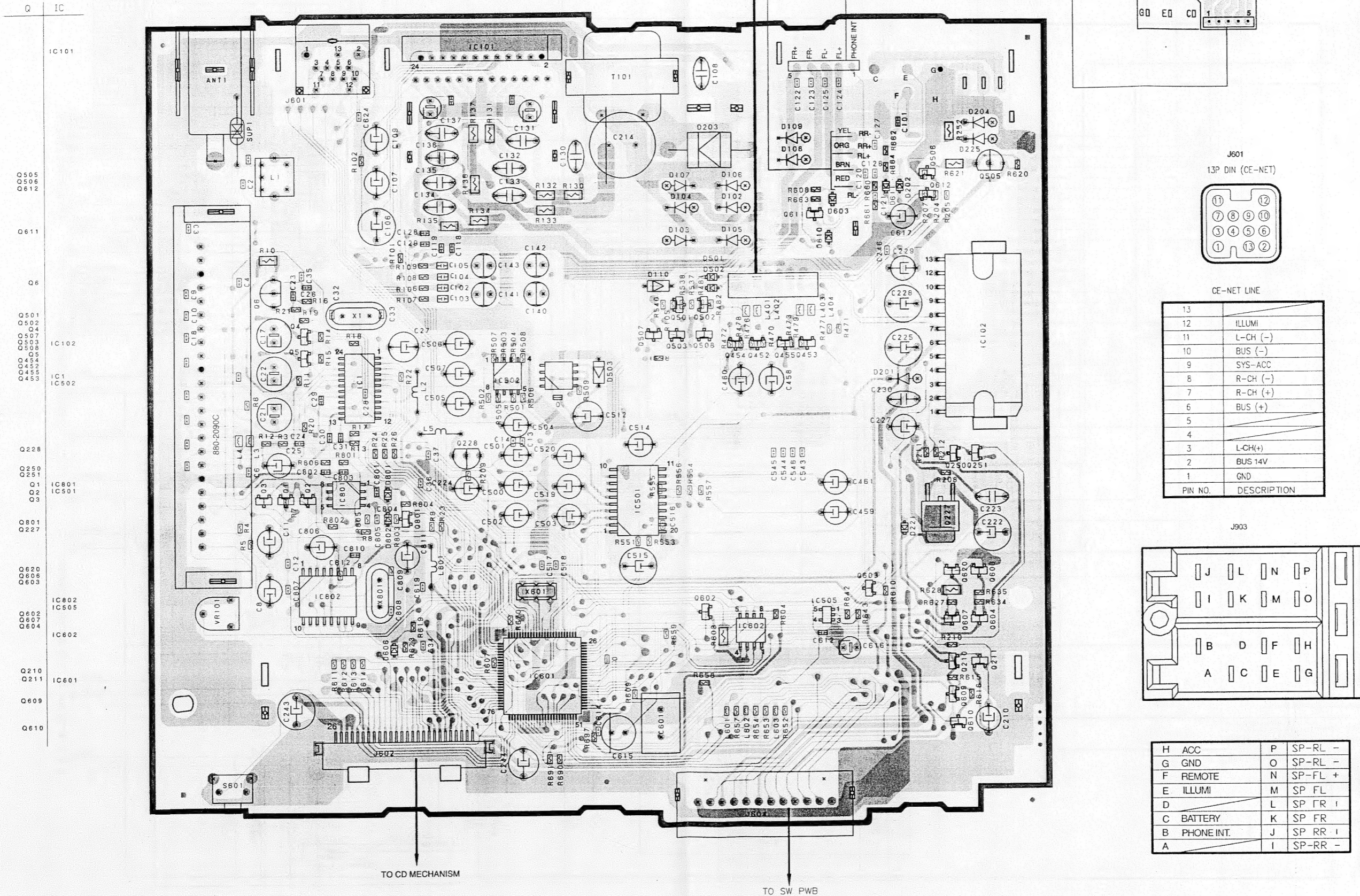


CIRCUIT DIAGRAM: Switch PWB (B2) section



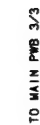
PRINTED WIRING BOARD:
Main PWB (B1) / ISO PWB (B3) section

Marks ● and marks GND are on the ground of the DIP layer.

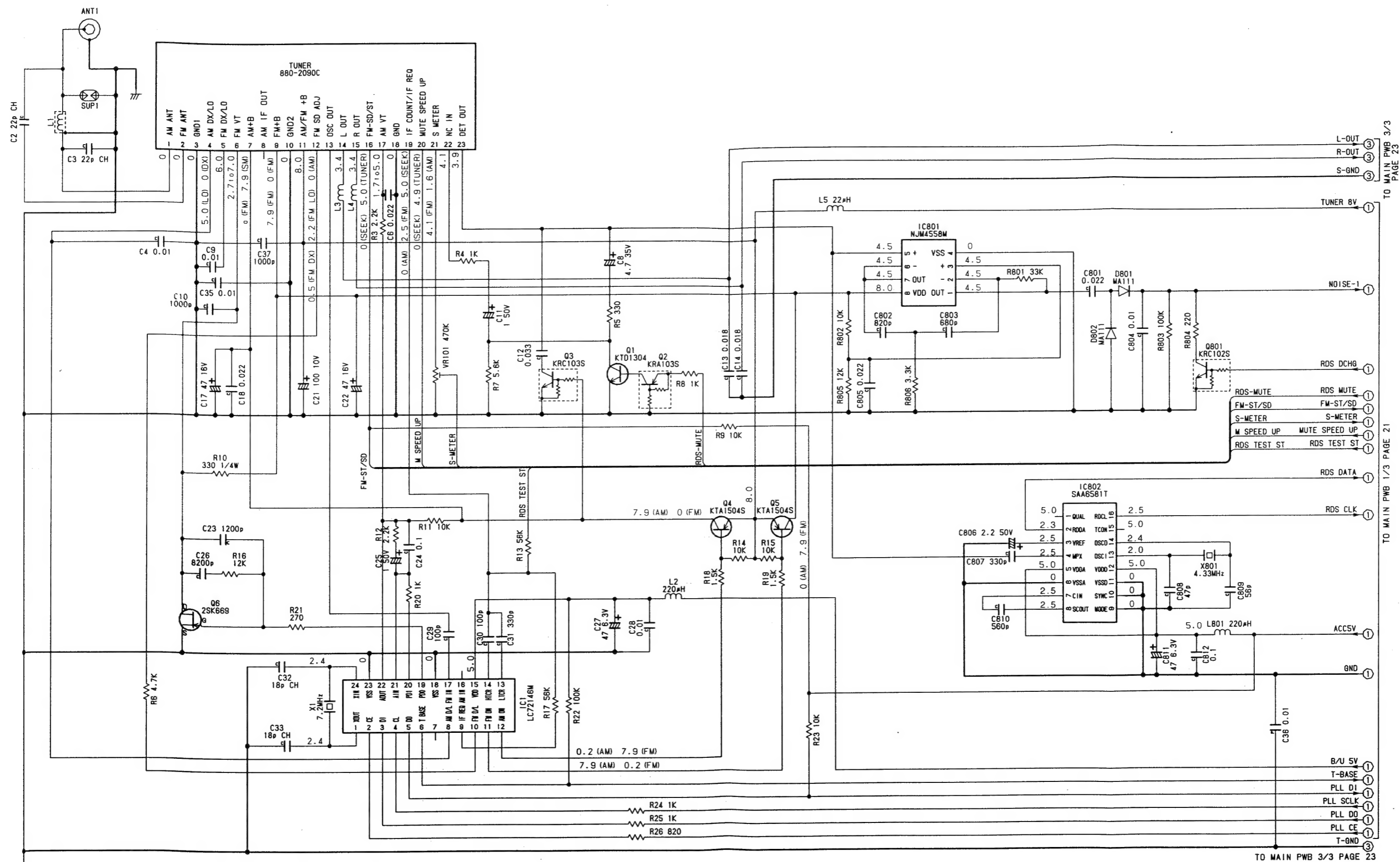


Main PWB (B1) section 1/3

Figure 22 shows a timing diagram for PLL signals. The diagram consists of two horizontal signal traces. The left trace is labeled 'PLL DI' and the right trace is labeled 'PLL SI'. Both traces show a series of pulses. Below the traces, there are labels for 'PLL SCLK', 'PLL CE', 'PLL DO', 'T-BASE', and 'FW-ST/SD'. The 'T-BASE' signal is a single pulse. The 'FW-ST/SD' signal is a pulse that occurs after the 'T-BASE' pulse.



CIRCUIT DIAGRAM:
Main PWB (B1) section 2/3



Main PWB (B1) section 3/3 *REF No. with "r(small letter)" like "r552" means a jumper wire.

